

Hanford Reach

Hanford Site Employee News

January 6, 2003

CH2M HILL to cut 140 Hanford positions

The Department of Energy has authorized CH2M HILL Hanford Group to continue the Involuntary Reduction of Force that began in June with a self-select process. In the self-select IROF, 48 CH2M HILL employees volunteered to be terminated.

The nature of the tank-farm contractor's mission continues to change as work is completed, and the company announced that it expects to reduce its workforce by another 140 positions. The IROF notices will be issued in mid-September, according to an all-employee message from company President and General Manager Ed Aromi.

"Each organization within CH2M HILL will determine its impacted positions based on the continuing need to align the organization and its resources with our contractual scope of work," Aromi wrote in an e-mail message to employees on Aug. 8. "The President's Office will review and approve each organization's recommendations with an eye toward consistency and fairness."

Aromi said the workforce reduction mirrors the changing employment climate at Hanford and other DOE sites across the nation. "While workforce reductions have come to Hanford before," he said, "I am very mindful of the tremendous emotional toll this takes on those who go and those who stay."

Departing employees will be eligible for outplacement services through the company's own Transition Center and its association with WorkSource Columbia Basin.

Information on IROF benefits is available through Human Resources representatives and on the Hanford Intranet at <http://apweb200.rl.gov/rapidweb/chg/rpp/>.

"During this time of change, it is essential that together we stay focused on safe, quality performance," Aromi said, "and that living the values we share will guarantee that all of our co-workers are treated with the respect and dignity that is their right." ■

Fluor to outsource fabrication work

Fluor Hanford has received several bids in response to a request for proposals issued in May for work currently being done by Site Fabrication Services in the 200 West Area. The proposals are being evaluated, and the award will consist of a commitment for service orders through fiscal year 2006, with two one-year options to follow.

“As our cleanup work shifts to deactivation and decommissioning of facilities, the need for the service is declining, and it is no longer practical to maintain this service in-house,” said Fluor Hanford President Dave Van Leuven in an electronic message to employees. “Therefore, outsourcing this work is a good business decision.”

Fabrication Services does small-lot production, manufactures prototypes and one-of-a-kind items, and repairs parts and components. After the contract award, plans call for vacating the 272W and 277W Buildings and modifying the 273W and 275W Buildings for use by the Fluor Hanford Maintenance organization. ■

Picture Pages



WELDING SNF CANISTERS:

Welding permanent cover assemblies onto the large multi-canister overpacks, or MCOs, is ahead of schedule. The MCOs hold the spent nuclear fuel that has been removed from the K Basins and dried for long-term storage. Workers with Fluor Hanford's Spent Nuclear Fuel Project have attached cover assemblies on 63 MCOs since welding operations began in February.

WTP, UP-CLOSE AND

PERSONAL: Last week, Bechtel National's Scott Neubauer (left), high-level waste area engineer, gave Hanford Advisory Board members a tour of the progress on the High-Level Waste Vitrification facility at the Waste Treatment Plant construction site. The Hanford Advisory Board's Tank Waste Committee held its regular meeting at the construction site on Aug. 12. For most of the committee members, it was their first visit to what will be the world's largest plant for treating radioactive and chemical waste. Pictured, from left, are Neubauer, Hanford Advisory Board members Leon Swenson and Doug Huston, and Suzanne Dahl of the Washington State Department of Ecology.



Picture Pages continued on page 4.

Picture Pages



MITIGATING FIRE IMPACTS: Last spring, Hanford firefighters spent several weeks conducting prescribed burning activities to help mitigate the impact of wildland fires from all causes on the Hanford Site. Lightning, one of the anticipated causes of wildland fires, struck the site frequently in early August. Thunderstorms on Aug. 5 and 6 caused a number of fires on site and Hanford firefighters were busy extinguishing them. A fire near May Junction during the evening of Aug. 5 burned an estimated 500 acres. HFD also extinguished several small fires caused by the lightning cells that rolled across the area during the night of Aug. 6. After smoldering all day on Aug. 7, a fire was kindled near the old Hanford town site. It was quickly

extinguished by tired firefighters who were glad to see clear skies once again. The small amount of rain (0.38 inch) that accompanied these lightning storms was most appreciated, but it was not enough to break our cycle of *extreme* fire danger. Employees are cautioned to maintain a high level of vigilance as they move about the site, and call 911 to report any fire or smoke.



MONUMENTAL SIGN:

U.S. Fish and Wildlife Service maintenance crew employees J.J. Coates, David MacDonald and Scott Immele stand beside one of the recently installed entrance signs to the Hanford Reach National Monument/Saddle Mountain National Wildlife Refuge.

This 10-foot by 5-foot sign,

located at State Highways 240 and 225, welcomes visitors and travelers as they cross the boundary into the only National Monument managed by the U.S. Fish and Wildlife Service. Three other signs mark the main highway entrances to the monument. Rock and masonry bases will be added in the future. Project leader Greg M. Hughes said, "It is our hope that the new signs will help the traveling public recognize when they enter and leave monument lands and raise the awareness and appreciation of this magnificent local, regional and national treasure."

Picture Pages continued on page 5.

Picture Pages



FLUOR HANFORD SENIOR STAFF HITS THE ROAD: Fluor Hanford's senior staff meets in the 100K Area in the first of a series of meetings to be held at Fluor Hanford project locations across the site. The company's senior managers began the on-site meetings this month to see first-hand and understand both the successes and challenges of each of the cleanup projects, and to be responsive to employees in the field. Members of the leadership team listen as President Dave Van Leuven (center) emphasizes the importance of working safely at the K Basins.

60 Hanford 1943-2003 Years The Hanford Site celebrates 60 years of protecting America



RECALLING THE GOOD TIMES: Clarene Anderson points to her old home town of White Bluffs in a photo from the *Sage Sentinel* during Hanford's early years. Then as now, former residents of the towns of White Bluffs and Hanford have bittersweet memories of life before they had to leave their homes and farms under a condemnation order issued by the federal government. The residents left to make way for the facilities that would produce material for the atomic weapons that helped end World War II. See the article, "Hanford-White Bluffs reunion may be the last" (*Hanford Reach*, Aug. 11) to read more about reunions for former residents of the Priest Rapids Valley and their families. The photo is from the archives of the East Benton County Historical Museum, 205 Keewaydin Dr. in Kennewick.

Safety requires breaking the cycle of risky behavior

No one is beyond taking a safety risk, but we should be.

The president of a safety, environmental and business consulting firm (we'll call him Brad), tells the story of his wife purchasing an unassembled tricycle for their grandson and asking Brad to assemble it well before the boy arrived for his birthday celebration. Thinking "How hard can it be?" Brad put the task off until minutes before the family was scheduled to arrive.

As it turned out, the process was more complicated than he'd thought. Working against the clock, he felt a stinging pain as a screwdriver slipped from its mark and found the palm of his hand.

He often tells that story during presentations.

"When you change a light bulb in your dining room, we probably all know you should go out into the garage and get the stepladder and move the dining-room table, but usually you just stand on a chair. And we get away with it, for the most part," Brad says.

That type of behavior is reinforced every time a risk is taken without incident, whether it's cutting the lawn in sandals or standing on the top rung of a ladder in the workplace.

"That's the frustration we sometimes encounter. You are trying to get people to do things properly, but they have been doing things improperly for so long and getting away with it that the behavior is difficult to change," he says.

We would be rich if we had a dollar for every time an injured employee told us: "I don't know what happened. I've been doing this job for 20 years and I've never been hurt before."

The truth is we hurt ourselves most often as a result of our actions. I call it lack of present-moment thinking.

Over time, people will develop "habit strength," such as buckling their seat belt without even thinking about it when getting into a car. "Those techniques work very well when we don't introduce any other factors, such as being tired, frustrated or in a hurry," Brad says.

But what happens to the normally careful driver who sleeps through an alarm and is running 15 minutes late for work? Chances are good he or she is tailgating, cursing and speeding on the commute to work.

The same situation frequently occurs in the workplace itself.

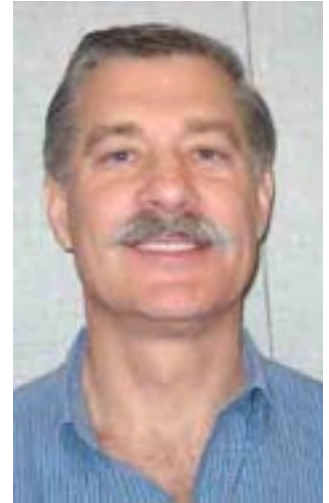
When you introduce such factors or influences as haste into the work environment — in response to the machine being down, the work not progressing as planned or schedule demands not being met — all of a sudden we begin to work outside the boundaries of common-sense-safety.

A worker will make more critical errors in a state of haste, fatigue, frustration or complacency.

Wouldn't it be better if we could step back from that state, take a deep breath and realize, I'm going to get hurt doing this? Brad calls this approach of taking a step backward "advanced safety awareness." Wouldn't we be safer if we responded that way all the time, at home and at work?

Let's practice it. ■

Commentary
by
Dennis Wiatrak
Fluor Hanford



Threatened juvenile salmon get help from PNNL

Research has found that thousands of miles of essential juvenile salmon habitat are blocked by tens of thousands of culverts that lay beneath Pacific Northwest roadways. Many of these culverts that have successfully channeled water under roadbeds for years are acting as barriers to young salmon and preventing the upstream passage the fish require for growth and development.

To find a more “fish friendly” design for the culverts, the Washington State Department of Transportation has hired Pacific Northwest National Laboratory to design and install a culvert test bed.



“We’re blending the expertise of hydraulics engineers, mechanical engineers, statisticians, fish biologists and fish-behavior specialists to find a solution to a problem that faces the entire Northwest and has implications for culverts throughout the country,” said Walter Pearson, PNNL fish behaviorist and program manager.

The full-scale, one-of-a-kind test bed is located at the Washington Department of Fish and Wildlife Skookumchuck Hatchery near Tenino, Wash.

The system allows scientists to adjust and measure the hydraulic conditions — water velocity, turbulence and depth — of various culvert designs being evaluated. By assessing different slopes and flow patterns, scientists can determine how these conditions influence the behavior of the fish and their ability to pass through a variety of culvert designs being considered as retrofits for existing culverts.

“There are hundreds of possibilities for bed configurations,” Pearson said. “A particular design may stop passing fish at some flow rate or some slope and that’s what we’ll be looking for. This will help us design stream crossings that accommodate fish in all life stages.”

The ability to quickly receive research results on these configurations is very appealing to transportation agencies. “Testing culvert designs in a controlled setting will help us better understand how we can meet fish passage needs in a variety of conditions,” said Jon Peterson of WSDOT’s Environmental Services Office. In coming years, tens of millions of dollars will be spent improving culvert fish passageways in Washington State alone.

U.S. Rep. Norm Dicks has recognized the need for greater federal involvement in removing these barriers to fish passage. “This is a critical issue requiring solid science to help maintain the health of our streams and the well-being of our fish runs,” Dicks said. “Decisions made based on research at this facility will benefit us for decades to come.”

Attempts to retrofit culverts are not new. Baffles, weirs, ladders and other physical structures have been added to enhance fish passage over the years, but there are insufficient data to demonstrate the effectiveness of these efforts. The program will provide decision-makers scientifically sound data to retrofit existing culverts and develop better designs for new culvert installations. “Investing in this system provides WSDOT with improved scientific data to ensure that we’re spending money on solutions for fish passage that will work to provide long-term benefits to our environment,” said Peterson.

Passage of juvenile salmon through culverts is a significant Endangered Species Act issue for the Pacific states. A transportation consortium that includes the states of California, Oregon, Washington and Alaska, along with the Federal Highway Administration, pooled funds totaling \$1.16 million to contract with PNNL to conduct the first phase of a five-year, \$3.4 million, interdisciplinary program. Scientists with extensive natural resources and hydraulics expertise from PNNL’s Marine Sciences Laboratory in Sequim, Wash., and from PNNL’s Hydrology Group in Richland designed, installed and will operate the culvert test bed. ■

Hanford XP Migration Project update

Excel 2002 has improved formatting features

With the upgrade to Office XP, you can take advantage of a wide range of new and improved features in the Excel spreadsheet program. Some of the new or improved formatting features that you will find in Excel 2002 included in Office XP are the following:

Tab colors

You can now keep your workbooks organized by color-coding worksheet tabs. You can choose from a variety of colors to organize sections of a workbook. To do this, right-click the "Worksheet" tab, select "Tab Color" and choose a color of your choice.

Unmerge cells

With the "Merge and Center" button on the Formatting toolbar, you can unmerge a group of cells just as easily as you can merge cells. It is possible to unmerge even if the "Undo" option is no longer available.

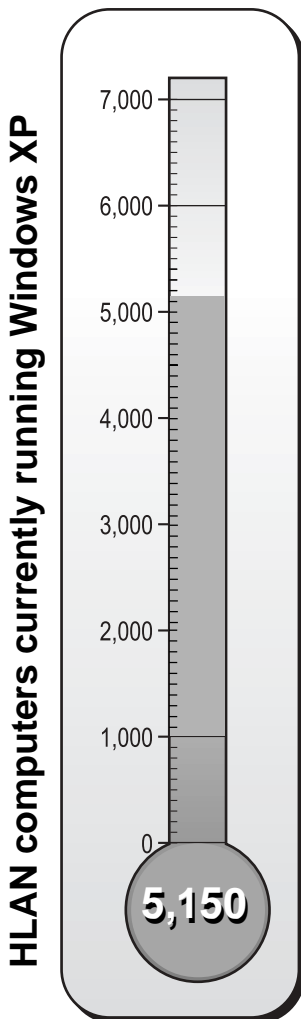
Border drawing

Using the border-drawing pencil, you can easily draw cell borders in your spreadsheet. Options include changing the line color, weight and style, or even adding a border grid to their sheet. Simply select "Draw Borders" from the "Borders" button on the Formatting toolbar.

Formatting smart tags

"Smart Tag" buttons will appear automatically on your worksheet to help you with tasks such as automatic correction, pasting, automatic filling, inserting and formula error-checking. With a click of a button you can choose from options related to your task without leaving the worksheet or the cells you're working on.

For more information on new and improved features of Excel 2002, search for "What's New" in Excel 2002 Help.



XP Project Home Page

<http://www.rl.gov/xp>

XP Application Testing Matrix

<http://www.rl.gov/xp/apptesting.asp>

XP Project Mailbox

^Windows XP Project



More than 200 employees registered to participate in the Make Your Move campaign

Hanford Environmental Health Foundation Health Education Service

Hanford Environmental Health Foundation joined forces with Fluor Hanford to sponsor the “Make Your Move” campaign, an eight-week program from May 21 through July 16, designed to promote physical activity and exercise and improve the health of workers throughout the Hanford Site.

Any Hanford Site employee with a DOE badge was eligible to participate in the program, and total of 202 employees representing all major contractors and several subcontractors registered to participate. Of these registered employees, 59 finished the program, and another 39 completed all the games published in the *Hanford Reach* throughout the course of the campaign.

Employees who registered for the Make Your Move program were given a diary in which they were asked to make an entry whenever they participated in a healthful exercise or physical activity.

Participation points were awarded for each of the entries, based on the time spent on that activity, rather than the specific type of exercise or intensity of the exercise. Extra points were awarded for completing the games published in the *Hanford Reach*, and for demonstrated reduction of health risk factors such as weight loss, lowered blood pressure and a decrease in cholesterol.

Points were also awarded for recruiting friends, co-workers and family members to join in physical activity and exercise. One participant recruited eight individuals during the course of the program.

Most of the participants who finished the Make Your Move program were already engaging in some sort of exercise or physical activity before registering. The program provided these employees extra incentive to continue or even expand their physical activity and exercise.

The program also had the goal of motivating those employees who do not exercise. HEHF staff members saw some evidence that the program did motivate people to begin exercising more, and while some participants did not finish the entire program, the staff was encouraged to see that employees showed the initiative to begin improving their health.

When the employees registered, they were asked to indicate their reasons for participating in the program, such as weight loss, improved sleep, maintaining a healthy weight, stress reduction, conditioning, and reductions in cholesterol and blood pressure. The highest response tallied was general health, followed by weight loss, conditioning and reducing stress.

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Make Your Move campaign wrap-up, cont.

The diaries completed by the Make Your Move participants were outstanding, and displayed a wonderfully diverse list of physical activity and exercise in which employees engaged. Walking was the most frequently reported exercise, and other popular activities included bicycling and golf. Many participants even listed yard work. Other participants engaged in unique activities such as kickboxing, aerobics, dancing, canoeing and fencing.

Participants who completed the program reported reduction in cholesterol levels, blood pressure and stress. The HEHF staff was pleased to see that one participant quit smoking during the eight-week program.

Reduction of these health risk factors was an important facet of Make Your Move. Participants also reported gaining an increased awareness of eating and nutritional habits, developing consistent and more frequent exercise routines and accepting more accountability for maintaining a healthy lifestyle.

As an incentive to encourage site employees to complete the eight-week program, a \$50 gift certificate from Galt Sports or Big 5 Sporting Goods was promised to the person who earned the most points. The response was outstanding, and \$50 gift certificates were given to the three site employees who earned more than 1,000 points: Vikki Ballew of Fluor Hanford, Tom Nirider of the Department of Energy and Christine DeVere of HEHF. Prizes from Big 5 Sporting Goods were given to the next 10 percent of employees with the most participation points. Six additional participants also received prizes for special achievements such as weight loss.

This first Make Your Move campaign on the Hanford Site helped employees recognize the importance of physical activity and exercise in maintaining a healthy lifestyle — especially for an aging Hanford Site workforce. HEHF plans to run a similar program in the future, and hopes to draw an even larger number of participants and motivate more Hanford Site workers to exercise. ■



- Cough
- Shortness of breath
- Weight loss and/or loss of appetite
- Fever
- Night sweats
- Skin rash

**These are common symptoms of
Chronic Beryllium Disease.**

Some people with the disease have no or mild symptoms, so if you suspect that you've been exposed to beryllium, you should not wait for these symptoms to develop.

Early detection of the disease is important.

***Find out more information about beryllium by visiting
www.hanford.gov/safety/beryllium
or call HEHF at 376-6000***

Manage stress through exercise, diet

Stress, exercise and diet are intimately connected. Because of this connection, when you lose control in one area, the other two areas are affected. Similarly, making improvements in your diet, exercise or stress-management skills will boost the other areas.

Stress affects diet and fitness

Stress affects the way you eat. You may respond to stress by experiencing a loss of appetite; overeating; eating too much of high-fat, sugary or salty food to soothe your discomfort; or overindulging in alcohol, caffeine or cigarettes.

Stress affects your physical fitness. You may respond to stress by feeling fatigued and exercising less. Stress-related muscle tension may lead to poor posture.

Diet and exercise can affect your stress response in the following ways:

- High blood pressure from inappropriate eating makes you tense.
- Too much caffeine makes you more jittery.
- Cigarettes raise your blood pressure.
- Lack of exercise raises your stress hormone level and lowers pleasure hormones.

Reverse the effects of stress

You can alleviate or reverse the effects of stress by adopting healthy dietary habits.

- Eat a good breakfast every morning.
- When the urge to grab a candy bar strikes, take a walk instead.
- Instead of high-salt or sugary snacks, eat an orange, section by section, and focus on the flavor, aroma and color of the fruit.

You can alleviate or reverse the effects of stress by exercising.

- When the stress level gets high, stop what you are doing and take a brisk walk around the building, house or block.
- Get involved in a regular exercise program.
- Take periodic, five-minute stretch breaks from work.
- Give yourself a shoulder massage.

You can reduce your stress level directly.

- Take a 20-minute break and practicing creative visualization
- Make a list of what is bothering you and correct one problem immediately.
- Practice deep breathing every day. ■

Driving habits, car maintenance can save gas, money

Gas prices are creeping up towards \$2 per gallon. As prices go up, more and more of your income goes to transportation expense. Here are some tips for saving gasoline from the Federal Trade Commission and the Department of Energy:

Save while you drive

- Slow down — Each 5 miles per hour that you drive over 60 mph costs you an additional 10 cents a gallon.
- Use overdrive gears — Your car's engine speed decreases when you use overdrive, reducing fuel consumption and engine wear.
- Use cruise control — Maintaining a consistent speed reduces fuel consumption.
- Drive sensibly — Avoiding unnecessary braking and acceleration improves fuel economy by 5 to 10 percent.
- Avoid unnecessary idling — Idling gets you 0 miles per gallon, so turn off your engine if you anticipate a long wait.
- Remove excess weight from the trunk — An extra 100 pounds in the trunk reduces a typical car's fuel economy by up to 2 percent.

Save by maintaining your car

- Keep your engine tuned — A poorly tuned engine increases fuel consumption by up to 20 percent.
- Keep tires properly inflated and aligned — Underinflated tires increase fuel consumption by up to 6 percent.
- Change your oil — Clean oil reduces friction of moving parts and removes harmful substances from the engine.
- Use recommended grade of oil — Using the wrong grade of oil for your car increases fuel consumption by up to 2 percent.
- Check and replace air filters regularly — Clogged filters increase fuel consumption by up to 10 percent.

Save by planning your trips

- Combine trips and errands — Several short trips taken from a cold start can use twice as much fuel as a longer, multipurpose trip covering the same distance when the engine is warm.
- Take advantage of vanpools or carpools — Consider sharing the ride or taking public transportation when possible.

Fuel additives or “gas-saving” products

Be wary of any gas-saving claims for automotive devices or oil and gas additives. The Environmental Protection Agency has evaluated or tested more than 100 such devices and additives and has not found any product that significantly improves gas mileage.

For more information on saving gasoline, visit <http://www.fueleconomy.gov/feg/drive.shtml>, or <http://www.ftc.gov/bcp/online/pubs/autos/gasave.htm>. ■

Security Ed Challenge

Approval for foreign national access takes time

The Aug. 4 Security Ed Challenge, "How are foreign nationals approved for Hanford Site access?", identified some of the special reviews and approvals needed to bring a foreign national to Hanford. As you can imagine, completing these requirements takes time.



Take the Security Ed Challenge: Of the list below, which identifies the suggested processing time needed to bring a foreign national citizen from Canada to meet with Hanford engineers located in a building other than a Limited or Protected Area?*

- A. Two weeks
- B. Two years
- C. Two months
- D. Two hours

Do you know the answer? Send an e-mail message with the recommended lead time to process a Canadian citizen for entry (indicate "Ed's FN Timeline" in the subject line) to C. E. (Chet) Braswell, or clip this article, circle the correct answer, add your name and HID number, and send your response to Security Ed at L4-09. Prizes will be awarded to randomly drawn correct entries. The names of prize-winners and the correct answer will appear in a future *Hanford Reach* article.

* Review the Safeguards and Security foreign national visits and assignment Intranet page at <http://apweb02.rl.gov/rapidweb/phmc/sas/index.cfm?PageNum=54> for a clue.

Submitted By _____ Hanford ID No. _____

Mailstop _____

If you have any challenges you would like Security Ed to consider, e-mail them to Security Ed at ^Security Ed or send them by plant mail to Security Ed at L4-09.



Congratulations to Nancy Skinner of Hanford Environmental Health Foundation, winner of the Aug. 4 Security Ed Challenge "How are foreign nationals approved for Hanford Site access?" Skinner won a MiniMag light for correctly answering that foreign nationals are *not* given standard security badges. By the way, what threw a lot of personnel on this challenge was the fact that foreign national approvals are made by senior managers who report directly to the company president, director, or Department of Energy Richland Operations Office manager.

Regular Features



Calendar

The Tri-City Young Marines seeks recruits

The Tri-City Young Marines is looking for a few good young men and women, ages 8 to 18, to join their ranks. The group will hold a parent information night at 7 p.m. on Aug. 21 at the Wagenaar U.S. Army Reserve Center, 1011 E. Ainsworth in Pasco. Parents, relatives and guardians are invited to come along with potential recruits to learn more about the Tri-City Young Marines program. The Young Marines is a national, not-for-profit, youth-education organization that focuses on character building through a combination of self-discipline, teamwork and leadership, and promotes a healthy, drug-free lifestyle. Although the Young Marines is the U.S. Marine Corps' official youth program for the Department of Defense Drug Demand Reduction effort, the Young Marines is not a recruiting force for the U.S. Marine Corps. The program strives to instill the core values of honor, courage and commitment adopted by the Marine Corps in each of its members. For more information, call 735-7437 in the evenings.

Library staff to discuss aquatic science databases

The Cambridge Scientific Abstracts are the gateway for information in aquatic sciences and water resources. The Hanford Technical Library staff will help you with tips and tricks to make the most of searching these databases from noon to 1 p.m. on Aug. 21 in Room 101R of the Consolidated Information Center on the Washington State University Tri-Cities campus. For more information, contact Mary Frances Lembo at 372-7441 or at mf.lembo@pnl.gov.

PNNL offers public lectures about Mars Aug. 23

The Pacific Northwest National Laboratory and the non-profit organization Alliance for the Advancement of Science through Astronomy are sponsoring an evening of public lectures about the planet Mars on Aug. 23 beginning at 7:30 p.m. at the Battelle Auditorium on the PNNL campus in north Richland. Andrea Dobson, professor of astronomy at Whitman College, will talk about our evolving understanding

of Mars. Steve Reidel, earth scientist, will speak about martian geology and compare it to the geology in eastern Washington state. Meteorite expert John Wacker will discuss martian meteorites. Recent pictures of Mars taken from the Rattlesnake Mountain Observatory will be shown and discussed by optical physicist Norm Anheier and astronomer Ken Swanson. For more information, contact Roy Gephart at 376-1421.

National Society of Black Engineers meets Aug. 27

The Columbia Basin Alumni Extension National Society of Black Engineers Chapter will hold the first monthly general board meeting for the 2003-2004 membership year on Aug. 27 at 6 p.m. in the Gallery of the Richland Public Library. This meeting will also be open to anyone interested in becoming a member. Light refreshments will be served. Come see what exciting activities NSBE has planned for the Tri-Cities. NSBE's mission is to increase the number of culturally responsible black engineers who excel academically, succeed professionally and positively affect the community.

Public star and Mars gaze at LIGO Aug. 29

The Laser Interferometer Gravitational-Wave Observatory (LIGO) facility and the Tri-City Astronomy Club are sponsoring an evening of star and Mars observing on Friday night, August 29, from 9 p.m. to 2 a.m. The best time to observe Mars is about midnight. A public tour of LIGO also takes place from 7 to about 9 p.m. that day. To reach LIGO, drive 8 miles north of Richland on State Route 240. When you reach State Route 225 turn right. Drive five miles to the entrance of LIGO. For more information, contact Terry Gunter of LIGO at 372-8106.

Tumbleweed Music Festival Aug. 30-31

The seventh annual Tumbleweed Music Festival will be held in Richland's Howard Amon Park Aug. 30-31. The daily events are free to the public from 11 a.m. to 7 p.m. More than 100 local, regional and national acts are featured on four outdoor stages and an indoor dance stage at the Richland Community Center. Musical performances range from international, traditional and contemporary folk to nautical,

Calendar continued on next page.

Regular Features



Calendar, cont.

bluegrass and blues. Tickets for the Saturday-evening concert and Sunday-evening contra dance are available at the festival information booth for \$8 for general admission and \$5 for teens and seniors. Children under 12 are free. For more information, visit the Three Rivers Folklife Society Web site at <http://www.3rfs.org/tmf.htm>, or call 943-ARTS or 528-2215.

ASQ dinner meeting scheduled for Sept. 2

The Sept. 2 dinner meeting of the local American Society for Quality will be held at the Richland Shilo Inn beginning at 5:30 p.m. with check-in and networking. The buffet dinner is at 6, and the presentation is at 7. This meeting will provide an opportunity for those who are unfamiliar with ASQ to learn more about the organization. Members will get an update on the national organization's activities and their effect on the local section. The guest speaker is ASQ Fellow, recent ASQ board member and independent quality consultant Dennis Arter. The cost is \$10. There is no charge for attending the presentation only. Make your reservations by Aug. 28. Call 372-1442, send an e-mail message to lynn_l_gates@rl.gov or register via the local ASQ section Web site at <http://www.3-cities.com/~gates/ASQ614.html>. Click on "What's Next" for additional information about the program, speakers and the dinner menu.

Donate blood at HAMMER on Sept. 9

The American Red Cross will hold a blood drive on Tuesday, Sept. 9, from 9 a.m. to 1 p.m. at the Al Alm Building Vehicle Bay at the Volpentest HAMMER Training and Education Center. To schedule an appointment, contact Libby Sickler at 376-7117.

Duratek sponsors golf tournament for United Way

The United Way scramble golf tournament, sponsored by Duratek, is scheduled for Sept. 11 at Canyon Lakes Golf Course in Kennewick. Shotgun start at 1 p.m. All proceeds go to the United Way. For information, visit www.duratekinc.com, under "Client News," or contact Angie Gagnon at 376-0804.

Safety and Health Conference takes place Oct. 3

"Emerging Issues in Safety and Health" is the title of the third Safety and Health Conference Oct. 3, 8 a.m.-5 p.m. at the Volpentest HAMMER Training and Education Center. The topics will emphasize the safety challenges presented by emerging issues such as an aging workforce, regulatory shifts, funding restrictions and emergency planning in today's troubled world. The Lower Columbia Basin Chapter of the American Society of Safety Engineers, the Tri-City Education Committee of the Pacific Northwest Section of the American Industrial Hygiene Association, and the Northwest Chapter of the System Safety Society are sponsoring the conference. If paid before Sept. 1, the conference fee is \$100 (\$85 for speakers, \$35 for students). After Sept. 1, the fee is \$125 (\$100 for speakers, \$45 for students). The fee includes lunch and refreshments. Attendees will receive 0.7 continuing education credits or 1 CIH Certification Maintenance Point. Eight speakers, a nationally known keynote speaker and a HAMMER tour are planned. For more information, contact John Cavanaugh at 373-9625 or at john_e_jr_cavanaugh@rl.gov, or John Hinckley at 371-4408 or at jhinckle@bechtel.com.

Northwest Purchasing Conference Oct. 10-11

The National Association of Purchasing Management-Columbia Basin will host the Pacific Northwest Purchasing Conference Oct. 10-11 at the Kennewick Red Lion Hotel. The conference will feature speakers, workshops, programs and a trade show related to purchasing, materials management and supply-chain management. For more information, consult the conference program Web page at <http://www.mltweb.com/orgs/conf/schedule.htm>.

Vendors wanted for BSA holiday craft bazaar

The Battelle Staff Association and Team Battelle are looking for vendors of hand-crafted items and home-baked goods (no commercial resale items) for the holiday craft bazaar and silent auction on Thursday, Nov. 13, 11 a.m. to 5 p.m. in the ETB and NSB Conference Rooms at 3200/3201 Q Avenue in Richland. No badges are required. The cost is \$10 per space. For more information and to reserve your space, contact Cheri Thomas at cheri.thomas@pnl.gov. ♦

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Regular Features



Classes

PROTRAIN offers software training

Primavera Project Planning

- P-3 601, Aug. 18-20

- P-3 602, Aug. 21

- P-3 603, Aug. 22

Crystal Reports 8

- Introduction, Aug. 18

- Advanced, Aug. 19

Word 2002 XP — Starts the week of Aug. 20

Access 2002 XP — Starts the week of Aug. 25

For more information, contact Sarah at 375-0414 or at sarah@protrainsys.com. Group discounts are available.

D2000 Safety Systems training at HAMMER

D2000 Safety Systems will be offering OSHA training for scaffolding at the Volpentest HAMMER Training and Education Center on Sept. 9-11. "Scaffolds-Competent Person" will train employees to identify the proper ways to erect scaffolding, will explain the hazards associated with scaffolding, and will train employees to recognize the responsibilities of a competent person. This training meets the OSHA criteria required for the classification of a competent person. The cost for the class is \$595. Register by calling D2000 Safety Systems at (800) 551-87630.

Organization Development seminar at WSU

The Washington State University Tri-Cities Business Department will offer a special seminar on "Organization Development," Mondays and Wednesdays, 5:45-7 p.m. beginning Aug. 25. The seminar will cover the essentials of organization development, a process that applies behavioral science knowledge and practices to help organizations achieve greater effectiveness. Examples of organizational development activities include team building with top corporate management, structural change in a municipality and job enrichment in a manufacturing firm. A major element in the study is the topic of change — the nature of planned change,

as well as leading and managing change. The instructor is Chris Wiprud. To register, contact the Registrar's office at 372-7250 for more information.

Project management seminar this fall at WSU

The WSU Tri-Cities Business Department will offer "Management 496," a special seminar in project management, on Mondays and Wednesdays, beginning Aug. 25, 4:15-5:30 p.m. The course will use case studies to examine the principles and practices of project management and will be linked to the Project Management Institute's Book of Knowledge. The instructor is Andy Hesser. Contact the Registrar's office, 372-7250, for more information.

Groundwater and soil remediation course at WSU

The course, "Groundwater and Soil Remediation ES/RP 592," will be offered at Washington State University Tri-Cities on Tuesdays and Thursdays, 5:45-7 p.m., beginning Aug. 26. The instructors are Marve Hyman and Ed Thornton. The course includes field trips to operating remediation sites and covers the following topics: groundwater treating, soil treating, feasibility studies and remedy selection, project design, safety and health plans and cost estimating. For more information, contact Marve Hyman at 375-0222.

Environmental regulation, waste management

Environmental Training Management Division Training, a division of Technical and Field Engineering, Inc., is offering the courses listed below in Richland. To register, or for more information, visit www.etmdtraining.com.

- **Waste Characterization** — Aug. 26-27. Cost is \$795. Topics covered include: materials characteristics, identifying hazardous waste, identifying polychlorinated biphenyls, identifying radioactive and mixed waste, meeting waste-acceptance criteria and waste packaging.
- **Environmental Laws and Regulations Course** — Sept. 9-11. Cost is \$595. Topics covered in-

Classes continued on next page.

Regular Features



Classes, cont.

- clude: Atomic Energy Act, National Environmental Policy Act, Resource Conservation and Recovery Act, and Comprehensive Environmental Response, Compensation and Liability Act.
- **DOE O 435.1 Radioactive Waste Management Training** — Sept. 15-17. Cost is \$800. The course consist of five modules: introduction, overview, and goals; low-level waste; low-level waste disposal; transuranic waste; and high-level waste.
 - **Management of Polychlorinated Biphenyls** — Sept. 23-25. Cost is \$780. Learning modules include background of PCB information (physical, chemical and toxicological properties) and discussion of 40 CFR 761.
 - **Cleanup Site Closure: Integrating Regulatory and Administrative Activities** — Oct. 6-7. Cost is \$490. Topics covered planning, activities and documentation related to CERCLA and RCRA.

Basic mediation training offered this fall

The Benton Franklin Dispute Resolution Center will present "40-Hour Basic Mediation Training," on Sept. 15, 16, 17, 30 and Oct. 1 from 8:30 a.m. until 5 p.m. daily at the Consolidated Information Center, Washington State University Tri-Cities campus. This training is open to all who want to become mediators or gain a higher degree of conflict management resolution skills. The course was designed and is taught by a team of experienced and practicing BFDRC mediators and trainers. The cost is \$500 tuition per person, which includes all training materials plus a light breakfast, lunch and snacks each day. Contact the Benton Franklin Dispute Resolution Center at 783-3325 to request a registration form and submit payment. The registration deadline is Sept. 8.

Professional development classes in September

The Tri-Cities Technical Council, an organization that represents local professional societies, will sponsor continuing education and professional development courses to be held 8:30 a.m. to 5 p.m. in the

Royal Hotel and Conference Center in Richland. The following courses are scheduled for September and October:

- **Biosafety** — Sept. 26. The cost is \$295 for America Industrial Hygiene Association members and \$375 for non-members.
- **Unsteady Flow in Pipeline Systems** — Sept. 26-27. The cost is \$895 for American Society of Civil Engineers members and \$1,095 for non-members.
- **Leadership and Communication** — Oct. 10. The cost is \$295 for AIHA members and \$375 for non-members.
- **Construction and Contract Law** — Oct. 10-11. The cost is \$895 for ASCE members and \$1,095 for non-members.
- **Six Sigma for Global Competiveness** — Oct. 10-11. The cost is \$795 for American Institute of Chemical Engineers and \$955 for non-members.
- **Conceptual Development and Cost Estimating** — Oct. 10-11. The cost is \$795 for AIChE members and \$955 for non-members.
- **Heat Stress** — Oct. 24. The cost is \$295 for AIHA members and \$375 for non-members.
- **Design-Build Contracting** — Oct 24-25. The cost is \$895 for ASCE members and \$1,095 for non-members.
- **Automatic Control (Advanced)** — Oct 24-25. The cost is \$795 for AIChE members and \$955 for non-members.
- **Effective Communication** — Oct. 24-25. The cost is \$795 for AIChE members and \$955 for non-members.

Registration is due four weeks ahead of the course date. Students will earn Continuing Education Units or Certification Maintenance points. To register for the AIChE courses, send checks to the Columbia Valley Section of AIChE, P.O. Box 305, Richland, WA 99352. To register for the ASCE courses, send checks to Tri-Cities Technical Council, P.O. Box 1483, Richland, WA 99352. For more information or to register for the AIHA course,

Classes continued on next page.

Regular Features



Classes, cont.

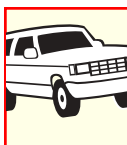
contact Marve Hyman at 375-0222.

Resource Training Institute, LLC, offers courses

The Resource Training Institute, LLC, will offer the following classes in Richland:

- **DOE O 435.1 Radioactive Waste Management Training** — Sept. 16-18, 8 a.m.-4 p.m.
- **Cleanup Site Closure: Integrating Regulatory and Administrative Activities** — Oct. 14-15, 8 a.m.-4 p.m.

To register, contact the RTI registrar at (803) 652-8830 or at registrar@rtii.org. For the full course schedule visit <http://www.rtii.org>. ♦



Vanpools

Vanpool ads are run for two weeks. Ads must be resubmitted to run in subsequent issues of the *Hanford Reach*. The deadline for submission is Thursday, 10 days prior to publication.

Day and Zimmermann Protection Technology Hanford reminds employees to wear their badges while on site and be prepared to show them when passing through a barricade. Vehicle drivers are responsible for ensuring their passengers are badged prior to leaving their point of embarkation. A vehicle driver who transports an unbadged person through a barricade and the unbadged person will be issued Security Incident Notices and the unbadged person will be escorted off site. Re-entry is not allowed until a proper badge is obtained.

KENNEWICK

Van No. 196 has openings for riders on its route from S. Kennewick and the Highlands to 200E. 8x9s, 7 a.m.-4:30 p.m. We try to pick up at homes close to established route. The route begins in the area around south 36th and Vancouver; proceeds to Clearwater, West Hood, Edison and to most locations in 200E, including 2750 and 2704-HV. Contact **John** at 372-0223. 8/11

Rider needed on vanpool to 200W. Picks up at Albertson's on Clearwater in Kennewick and Chief Joseph Middle School in Richland. Drops off at 222-S, PFP and the fab shop area. We keep the number of riders limited for comfort. Contact **Leann Spurlock** at 376-8703 or by e-mail. 8/11

Van No. 133, to 200W needs riders. 8x9s, leaves the Ben Franklin Transit Park 'n Ride at 6:05 a.m. Stops at 222-S, MO-720, T Plant and MO-279. Other 200 West Area stops will be considered. Contact **Terry Vail** at 373-2092 or **Phil Wilson** at 373-2964. 8/11

RICHLAND

Room for two more in carpool from Albertson's in Meadow Springs to 200E. Drops off at 2727-E and 2704-HV. 8x9s, shared driving. Contact **Kevin** at 373-4175 for details. 8/11

Vanpool Express (with a new van) to 200 E needs several riders, 8x9s. Monthly rate is as low as \$35. Leaves former Hanford bus lot (across from 2440 Stevens) at 6:25 a.m. and drops off at 2750-E local area. Will also pick up and drop off along route to and from bus lot: from Albany Ct. north on Alder, east on Bismark, north on McMurray, and north on Stevens Drive. Contact **Dave Hedengren** at 373-5094. 8/11

WEST RICHLAND

Vanpool rider seeking vanpool, 8x9s, 7 a.m. to 4:30 p.m., that picks up near West Richland, at the Park'n Ride at Van Giesen and Highway 240 or at a similar, close area. Need to be dropped off within walking distance of 222-S Labs. Could qualify as a driver if needed. Contact **Dale Weber** at Dale_H_Weber@rl.gov. 8/18 ♦